

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 101593,958
Source: IPWP
Date Processed by STIC: 10/3/06

ENTERED



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/593,958

DATE: 10/03/2006
TIME: 08:58:00

Input Set : A:\Sequence.txt
Output Set: N:\CRF4\10032006\J593958.raw

3 <110> APPLICANT: BORGFORD, Thor
 4 BRAUN, Curtis
 5 PURAC, Admir
 6 STOLL, Dominik
 8 <120> TITLE OF INVENTION: GLYCOSYLATION VARIANTS OF RICIN-LIKE PROTEINS
 10 <130> FILE REFERENCE: 10447-50
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/593,958
 C--> 13 <141> CURRENT FILING DATE: 2006-09-22
 15 <150> PRIOR APPLICATION NUMBER: US 60/555,678
 16 <151> PRIOR FILING DATE: 2004-03-24
 18 <160> NUMBER OF SEQ ID NOS: 6
 20 <170> SOFTWARE: PatentIn version 3.3
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 530
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Artificial Sequence
 27 <220> FEATURE:
 28 <223> OTHER INFORMATION: TST10088 Protein Sequence
 30 <400> SEQUENCE: 1
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 33 1 5 10 15
 36 Thr Ala Gly Ala Thr Val Gln Ser Tyr Thr Asn Phe Ile Arg Ala Val
 37 20 25 30
 40 Arg Gly Arg Leu Thr Thr Gly Ala Asp Val Arg His Glu Ile Pro Val
 41 35 40 45
 44 Leu Pro Asn Arg Val Gly Leu Pro Ile Asn Gln Arg Phe Ile Leu Val
 45 50 55 60
 48 Glu Leu Ser Asn His Ala Glu Leu Ser Val Thr Leu Ala Leu Asp Val
 49 65 70 75 80
 52 Thr Asn Ala Tyr Val Val Gly Tyr Arg Ala Gly Asn Ser Ala Tyr Phe
 53 85 90 95
 56 Phe His Pro Asp Asn Gln Glu Asp Ala Glu Ala Ile Thr His Leu Phe
 57 100 105 110
 60 Thr Asp Val Gln Asn Arg Tyr Thr Phe Ala Phe Gly Gly Asn Tyr Asp
 61 115 120 125
 64 Arg Leu Glu Gln Leu Ala Gly Asn Leu Arg Glu Asn Ile Glu Leu Gly
 65 130 135 140
 68 Asn Gly Pro Leu Glu Glu Ala Ile Ser Ala Leu Tyr Tyr Tyr Ser Thr
 69 145 150 155 160
 72 Gly Gly Thr Gln Leu Pro Thr Leu Ala Arg Ser Phe Ile Ile Cys Ile
 73 165 170 175
 76 Gln Met Ile Ser Glu Ala Ala Arg Phe Gln Tyr Ile Glu Gly Glu Met
 77 180 185 190

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80 Arg Thr Arg Ile Arg Tyr Asn Arg Arg Ser Ala Pro Asp Pro Ser Val
81 195 200 205
84 Ile Thr Leu Glu Asn Ser Trp Gly Arg Leu Ser Thr Ala Ile Gln Glu
85 210 215 220
88 Ser Asn Gln Gly Ala Phe Ala Ser Pro Ile Gln Leu Gln Arg Arg Asn
89 225 230 235 240
92 Gly Ser Lys Phe Ser Val Tyr Asp Val Ser Ile Leu Ile Pro Ile Ile
93 245 250 255
96 Ala Leu Met Val Tyr Arg Cys Ser Pro Gln Gly Ile Ala Gly Gln Cys
97 260 265 270
100 Met Asp Pro Glu Pro Ile Val Arg Ile Val Gly Arg Asn Gly Leu Cys
101 275 280 285
104 Val Asp Val Arg Asp Gly Arg Phe His Asn Gly Asn Ala Ile Gln Leu
105 290 295 300
108 Trp Pro Cys Lys Ser Asn Thr Asp Ala Asn Gln Leu Trp Thr Leu Lys
109 305 310 315 320
112 Arg Asp Asn Thr Ile Arg Ser Asn Gly Lys Cys Leu Thr Thr Tyr Gly
113 325 330 335
116 Tyr Ser Pro Gly Val Tyr Val Met Ile Tyr Asp Cys Asn Thr Ala Ala
117 340 345 350
120 Thr Asp Ala Thr Arg Trp Gln Ile Trp Asp Asn Gly Thr Ile Ile Asn
121 355 360 365
124 Pro Arg Ser Ser Leu Val Leu Ala Ala Thr Ser Gly Asn Ser Gly Thr
125 370 375 380
128 Thr Leu Thr Val Gln Thr Asn Ile Tyr Ala Val Ser Gln Gly Trp Leu
129 385 390 395 400
132 Pro Thr Gln Asn Thr Gln Pro Phe Val Thr Thr Ile Val Gly Leu Tyr
133 405 410 415
136 Gly Leu Cys Leu Gln Ala Asn Ser Gly Gln Val Trp Ile Glu Asp Cys
137 420 425 430
140 Ser Ser Glu Lys Ala Glu Gln Gln Trp Ala Leu Tyr Ala Asp Gly Ser
141 435 440 445
144 Ile Arg Pro Gln Gln Asn Arg Asp Asn Cys Leu Thr Ser Asp Ser Asn
145 450 455 460
148 Ile Arg Glu Thr Val Val Lys Ile Leu Ser Cys Gly Pro Ala Ser Ser
149 465 470 475 480
152 Gly Gln Arg Trp Met Phe Lys Asn Asp Gly Thr Ile Leu Asn Leu Tyr
153 485 490 495
156 Ser Gly Leu Val Leu Asp Val Arg Ala Ser Asp Pro Ser Leu Lys Gln
157 500 505 510
160 Ile Ile Leu Tyr Pro Leu His Gly Asp Pro Asn Gln Ile Trp Leu Pro
161 515 520 525
164 Leu Phe
165 530
168 <210> SEQ ID NO: 2
169 <211> LENGTH: 530
170 <212> TYPE: PRT
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:

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174 <223> OTHER INFORMATION: TST10092 Protein Sequence
 176 <400> SEQUENCE: 2
 178 Glu Ala Glu Ala Ile Phe Pro Lys Gln Tyr Pro Ile Ile Gln Phe Thr
 179 1 5 10 15
 182 Thr Ala Gly Ala Thr Val Gln Ser Tyr Thr Asn Phe Ile Arg Ala Val
 183 20 25 30
 186 Arg Gly Arg Leu Thr Thr Gly Ala Asp Val Arg His Glu Ile Pro Val
 187 35 40 45
 190 Leu Pro Asn Arg Val Gly Leu Pro Ile Asn Gln Arg Phe Ile Leu Val
 191 50 55 60
 194 Glu Leu Ser Asn His Ala Glu Leu Ser Val Thr Leu Ala Leu Asp Val
 195 65 70 75 80
 198 Thr Asn Ala Tyr Val Val Gly Tyr Arg Ala Gly Asn Ser Ala Tyr Phe
 199 85 90 95
 202 Phe His Pro Asp Asn Gln Glu Asp Ala Glu Ala Ile Thr His Leu Phe
 203 100 105 110
 206 Thr Asp Val Gln Asn Arg Tyr Thr Phe Ala Phe Gly Gly Asn Tyr Asp
 207 115 120 125
 210 Arg Leu Glu Gln Leu Ala Gly Asn Leu Arg Glu Asn Ile Glu Leu Gly
 211 130 135 140
 214 Asn Gly Pro Leu Glu Glu Ala Ile Ser Ala Leu Tyr Tyr Ser Thr
 215 145 150 155 160
 218 Gly Gly Thr Gln Leu Pro Thr Leu Ala Arg Ser Phe Ile Ile Cys Ile
 219 165 170 175
 222 Gln Met Ile Ser Glu Ala Ala Arg Phe Gln Tyr Ile Glu Gly Glu Met
 223 180 185 190
 226 Arg Thr Arg Ile Arg Tyr Asn Arg Arg Ser Ala Pro Asp Pro Ser Val
 227 195 200 205
 230 Ile Thr Leu Glu Asn Ser Trp Gly Arg Leu Ser Thr Ala Ile Gln Glu
 231 210 215 220
 234 Ser Asn Gln Gly Ala Phe Ala Ser Pro Ile Gln Leu Gln Arg Arg Asn
 235 225 230 235 240
 238 Gly Ser Lys Phe Ser Val Tyr Asp Val Ser Ile Leu Ile Pro Ile Ile
 239 245 250 255
 242 Ala Leu Met Val Tyr Arg Cys Ser Pro Gln Gly Ile Ala Gly Gln Cys
 243 260 265 270
 246 Met Asp Pro Glu Pro Ile Val Arg Ile Val Gly Arg Asn Gly Leu Cys
 247 275 280 285
 250 Val Asp Val Arg Asp Gly Arg Phe His Asn Gly Asn Ala Ile Gln Leu
 251 290 295 300
 254 Trp Pro Cys Lys Ser Asn Thr Asp Ala Asn Gln Leu Trp Thr Leu Lys
 255 305 310 315 320
 258 Arg Asp Asn Thr Ile Arg Ser Asn Gly Lys Cys Leu Thr Thr Tyr Gly
 259 325 330 335
 262 Tyr Ser Pro Gly Val Tyr Val Met Ile Tyr Asp Cys Asn Thr Ala Ala
 263 340 345 350
 266 Thr Asp Ala Thr Arg Trp Gln Ile Trp Asp Asn Gly Thr Ile Ile Asn
 267 355 360 365
 270 Pro Arg Ser Ser Leu Val Leu Ala Ala Thr Ser Gly Asn Ser Gly Thr

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271	370	375	380													
274	Thr	Leu	Thr	Val	Gln	Thr	Asn	Ile	Tyr	Ala	Val	Ser	Gln	Gly	Trp	Leu
275	385	390	395	400												
278	Pro	Thr	Asn	Asn	Thr	Gln	Pro	Phe	Val	Thr	Thr	Ile	Val	Gly	Leu	Tyr
279	405	410	415													
282	Gly	Leu	Cys	Leu	Gln	Ala	Asn	Ser	Gly	Gln	Val	Trp	Ile	Glu	Asp	Cys
283	420	425	430													
286	Ser	Ser	Glu	Lys	Ala	Glu	Gln	Gln	Trp	Ala	Leu	Tyr	Ala	Asp	Gly	Ser
287	435	440	445													
290	Ile	Arg	Pro	Gln	Gln	Asn	Arg	Asp	Asn	Cys	Leu	Thr	Ser	Asp	Ser	Asn
291	450	455	460													
294	Ile	Arg	Glu	Thr	Val	Val	Lys	Ile	Leu	Ser	Cys	Gly	Pro	Ala	Ser	Ser
295	465	470	475	480												
298	Gly	Gln	Arg	Trp	Met	Phe	Lys	Asn	Asp	Gly	Thr	Ile	Leu	Asn	Leu	Tyr
299	485	490	495													
302	Ser	Gly	Leu	Val	Leu	Asp	Val	Arg	Ala	Ser	Asp	Pro	Ser	Leu	Lys	Gln
303	500	505	510													
306	Ile	Ile	Leu	Tyr	Pro	Leu	His	Gly	Asp	Pro	Asn	Gln	Ile	Trp	Leu	Pro
307	515	520	525													
310	Leu	Phe														
311	530															
314	<210>	SEQ	ID	NO:	3											
315	<211>	LENGTH:	531													
316	<212>	TYPE:	PRT													
317	<213>	ORGANISM:	Artificial Sequence													
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320	<223>	OTHER INFORMATION:	TST10147 Protein Sequence													
322	<400>	SEQUENCE:	3													
324	Glu	Ala	Glu	Ala	Ile	Phe	Pro	Lys	Gln	Tyr	Pro	Ile	Ile	Gln	Phe	Thr
325	1	5	10	15												
328	Thr	Ala	Gly	Ala	Thr	Val	Gln	Ser	Tyr	Thr	Asn	Phe	Ile	Arg	Ala	Val
329	20	25	30													
332	Arg	Gly	Arg	Leu	Thr	Thr	Gly	Ala	Asp	Val	Arg	His	Glu	Ile	Pro	Val
333	35	40	45													
336	Leu	Pro	Asn	Arg	Val	Gly	Leu	Pro	Ile	Asn	Gln	Arg	Phe	Ile	Leu	Val
337	50	55	60													
340	Glu	Leu	Ser	Asn	His	Ala	Glu	Leu	Ser	Val	Thr	Leu	Ala	Leu	Asp	Val
341	65	70	75	80												
344	Thr	Asn	Ala	Tyr	Val	Val	Gly	Tyr	Arg	Ala	Gly	Asn	Ser	Ala	Tyr	Phe
345	85	90	95													
348	Phe	His	Pro	Asp	Asn	Gln	Glu	Asp	Ala	Glu	Ala	Ile	Thr	His	Leu	Phe
349	100	105	110													
352	Thr	Asp	Val	Gln	Asn	Arg	Tyr	Thr	Phe	Ala	Phe	Gly	Gly	Asn	Tyr	Asp
353	115	120	125													
356	Arg	Leu	Glu	Gln	Leu	Ala	Gly	Asn	Leu	Arg	Glu	Asn	Ile	Glu	Leu	Gly
357	130	135	140													
360	Asn	Gly	Pro	Leu	Glu	Glu	Ala	Ile	Ser	Ala	Leu	Tyr	Tyr	Tyr	Ser	Thr
361	145	150	155	160												
364	Gly	Gly	Thr	Gln	Leu	Pro	Thr	Leu	Ala	Arg	Ser	Phe	Ile	Ile	Cys	Ile

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365	165	170	175													
368	Gln	Met	Ile	Ser	Glu	Ala	Ala	Arg	Phe	Gln	Tyr	Ile	Glu	Gly	Glu	Met
369				180				185						190		
372	Arg	Thr	Arg	Ile	Arg	Tyr	Asn	Arg	Arg	Ser	Ala	Pro	Asp	Pro	Ser	Val
373					195			200						205		
376	Ile	Thr	Leu	Glu	Asn	Ser	Trp	Gly	Arg	Leu	Ser	Thr	Ala	Ile	Gln	Glu
377					210			215						220		
380	Ser	Asn	Gln	Gly	Ala	Phe	Ala	Ser	Pro	Ile	Gln	Leu	Gln	Arg	Arg	Asn
381	225					230					235				240	
384	Gly	Ser	Lys	Phe	Ser	Val	Tyr	Asp	Val	Ser	Ile	Leu	Ile	Pro	Ile	Ile
385					245					250				255		
388	Ala	Leu	Met	Val	Tyr	Arg	Cys	Gly	Ser	Pro	Gln	Gly	Ile	Ala	Gly	Gln
389					260			265						270		
392	Cys	Met	Asp	Pro	Glu	Pro	Ile	Val	Arg	Ile	Val	Gly	Arg	Asn	Gly	Leu
393					275			280						285		
396	Cys	Val	Asp	Val	Arg	Asp	Gly	Arg	Phe	His	Asn	Gly	Asn	Ala	Ile	Gln
397	290					295					300					
400	Leu	Trp	Pro	Cys	Lys	Ser	Asn	Thr	Asp	Ala	Asn	Gln	Leu	Trp	Thr	Leu
401	305					310					315				320	
404	Lys	Arg	Asp	Asn	Thr	Ile	Arg	Ser	Asn	Gly	Lys	Cys	Leu	Thr	Thr	Tyr
405						325					330				335	
408	Gly	Tyr	Ser	Pro	Gly	Val	Tyr	Val	Met	Ile	Tyr	Asp	Cys	Asn	Thr	Ala
409						340					345				350	
412	Ala	Thr	Asp	Ala	Thr	Arg	Trp	Gln	Ile	Trp	Asp	Asn	Gly	Thr	Ile	Ile
413						355					360				365	
416	Asn	Pro	Arg	Ser	Ser	Leu	Val	Leu	Ala	Ala	Thr	Ser	Gly	Asn	Ser	Gly
417						370					375				380	
420	Thr	Thr	Leu	Thr	Val	Gln	Thr	Asn	Ile	Tyr	Ala	Val	Ser	Gln	Gly	Trp
421	385						390					395				400
424	Leu	Pro	Thr	Gln	Asn	Thr	Gln	Pro	Phe	Val	Thr	Thr	Ile	Val	Gly	Leu
425							405					410				415
428	Tyr	Gly	Leu	Cys	Leu	Gln	Ala	Asn	Ser	Gly	Gln	Val	Trp	Ile	Glu	Asp
429							420					425				430
432	Cys	Ser	Ser	Glu	Lys	Ala	Glu	Gln	Gln	Trp	Ala	Leu	Tyr	Ala	Asp	Gly
433						435					440				445	
436	Ser	Ile	Arg	Pro	Gln	Gln	Asn	Arg	Asp	Asn	Cys	Leu	Thr	Ser	Asp	Ser
437						450					455				460	
440	Asn	Ile	Arg	Glu	Thr	Val	Val	Lys	Ile	Leu	Ser	Cys	Gly	Pro	Ala	Ser
441	465						470					475				480
444	Ser	Gly	Gln	Arg	Trp	Met	Phe	Lys	Asn	Asp	Gly	Thr	Ile	Leu	Asn	Leu
445							485					490				495
448	Tyr	Ser	Gly	Leu	Val	Leu	Asp	Val	Arg	Ala	Ser	Asp	Pro	Ser	Leu	Lys
449							500					505				510
452	Gln	Ile	Ile	Leu	Tyr	Pro	Leu	His	Gly	Asp	Pro	Asn	Gln	Ile	Trp	Leu
453						515					520				525	
456	Pro	Leu	Phe			530										
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/593,958

DATE: 10/03/2006

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Input Set : A:\Sequence.txt

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L:12 M:270 C: Current Application Number differs, Replaced Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date